## CLAIMS

## What is claimed is:

1	1.	A method comprising:
2	captu	rring an image;
3	deter	mining if the image has changed, and if the image has changed,
4	sending the	image to a server; and
5	if the	image has not changed with a period, sending a heartbeat to indicate
6	continued fo	unctionality.
1	2.	The method of claim 1/ wherein determining if the image has
2	changed comprises detecting motion in the image.	
1	3.	The method of claim 1, wherein sending a heartbeat is smaller, and
2	thus uses less bandwidth than sending an image.	
1	4.	The method of claim 3, wherein the heartbeat comprises a
2	compressed	version of the unchanged image, including a time stamp.
1	5.	The method of claim 3, wherein the heartbeat comprises a time
2	stamp.	
1	6.	The method of claim 3, wherein the heartbeat is a single bit.
1	7.	An apparatus comprising:
2		nera for pbtaining images;
3	an interface to send a new image if the new image is different from the old	
4	image; and	
5	•	rtbeat logic to send a heartbeat signal, if the new image has not been
6		m/the old image in a period of time.
		/

1	8.	The apparatus of claim 7, further comprising:
2	a mot	ion detector to compare the new image with the old image, and
3	determine if	the new image is different from the old image.
1	9.	The apparatus of claim 7, wherein the camera periodically obtains a
2	new image.	
1	10.	The apparatus of claim 7, further comprising a timer, the timer
2	reset every t	ime the interface send a new image, and the timer indicating to the
3	heartbeat log	gic to send the heartbeat signal, if the timer reaches a value.
1	11.	The apparatus of claim 1, wherein sending a heartbeat is smaller,
2	and thus use	es less bandwidth than sending an image.
1	12.	The apparatus of claim 11, wherein the heartbeat comprises a
2	compressed	version of the unchanged image, including a time stamp.
1	13.	The apparatus of claim 11, wherein the heartbeat comprises a time
2	stamp.	
1_		A method of obtaining images and a status of a camera, the method
2	comprising:	
\3 >	sendi	ng a new image, if the new image is different from an old image; and
4	sendi	ag a heartbeat, if the new image is not different from the old image.
1	15.	The method of claim 14, wherein the new image is send
2	periodically	at a first rate, and the heatheat is sent periodically at a second rate

16. The method of claim 15, wherein the heartbeat is sent only if a

-31-

80%	> <sup>2</sup>	_series of new images were the same as the old images.
	1	17. The method of claim 14, further comprising:
	2	using a first timer to periodically send the new images; and
	3	using a second timer, to send the heartbeat, if no new images were sent
	4	within a period.
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$\sim$	1	18. The method of claim 17, further comprising resetting the second
DO'	<b>,</b> 2	timer when the new image is sent.
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	1	19. A system of providing images to a user, the system comprising:
	2	a plurality of cameras for periodically obtaining images:
ij	3	a camera control system to collect images from the plurality of cameras,
	4	the camera control system including:
`\\   <del>\</del>	5	a comparison logic to determine whether a new image
ı ı	6	obtained by a camera is different from an old image obtained by
Rad officer He "Hell land	7	the camera;
	8	a heartbeat logic to generate a heartbeat signal, if the new
14	9	image has not been different from the old image in a period of time;
Å	10	and //
	11	an interface to send the new images that are different from
	12	old images through a network;
	13	a server to receive the images from the camera control system and server
	14	them to the user.
	1	20. The system of claim 19, wherein the interface further sends a
	/2	heartbeat for those cameras that have not had an image sent in a previous set of
	3	cycles.
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